SANYO

SANYO
STEREO RECEIVER
DCX 6000K (SEV)
SERVICE MANUAL

SPECIFICATIONS

GENERAL

Transistors	2SC693 X 3, 2SA726 X 2 2SA764 X 2, 2SC536 X 8 2SC1313 X 10, 2SB511 X 1 2SC674 X 1, 2SA733 X 4 2SD325 X 2, 2SC929 X 1 2SC875 X 4, 3SK30 X 1 2SC1175 X 6, 2SA659 X 2 SE3001 X 1, 2SA532 X 2 2SC1444 X 2, 2SC535 X 1 2SC930 X 6
Diodes	1S188 X 9, RD24A-N X 1 RD-13A X 1, RD24A-M X 1 DS-430 X 4
Silicon rectifiers	S3RC40 X 1, S3RC40R X 1
Power source	AC 110, 220V
Power consumption	160 W
Dimmension (approx.)	455 (W) X 340 (D) X 148 (H) mm 17-15/16" X 13-3/8" X 5-7/8"
Weight (approx.)	11.5 kg 25.1 lbs.

FM TUNER SECTION

Frequency Range	88 – 108 MHz
IF	10.7 MHz
Antenna Impedance	300 ohms balanced 75 ohms unbalanced
30 dB S/N Sensitivity	2.5 μV
Usable Sensitivity (IHF)	2.5 μV
Capture Ratio	2.5 dB
Image Rejection	80 dB (98 MHz)
IF Rejection	95 dB (98 MHz)
AM Suppression	50 dB (98 MHz)
Signal to Noise Ratio	70 dB (98 MHz)
Harmonic Distortion	Mono: 0.3 % (100 % Mod.) Stereo: 0.5 % (100 % Mod.)
Stereo Separation	35 dB
Selectivity (IHF)	60 dB

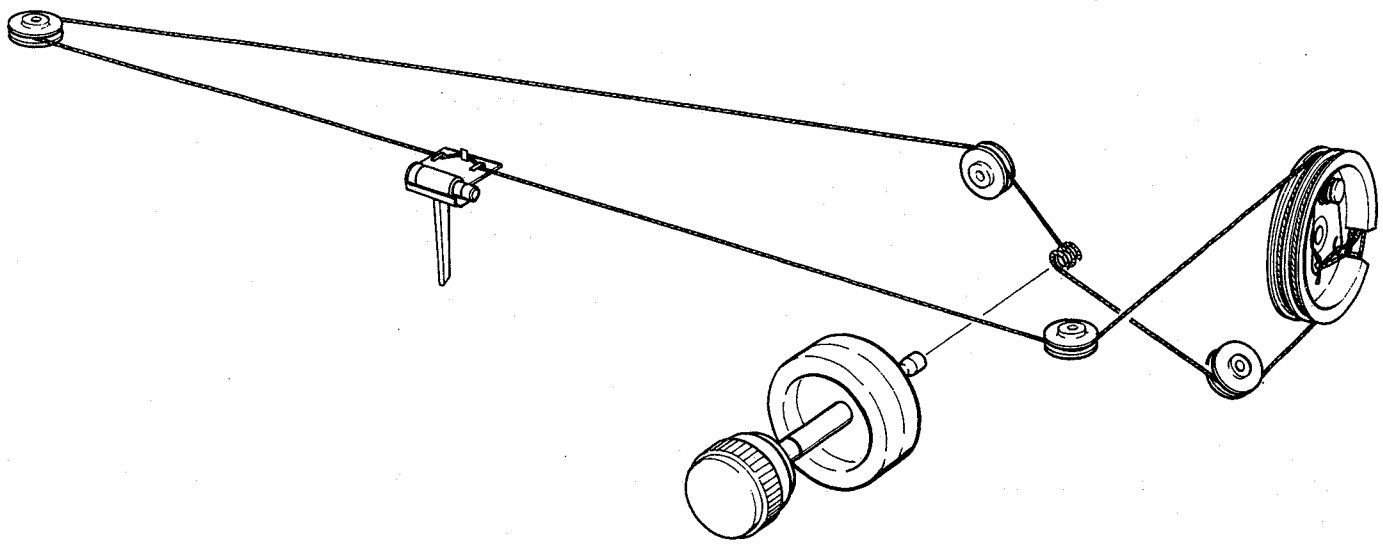
AM TUNER SECTION

Frequency range	535 – 1,605 kHz
20 dB S/N Sensitivity	300 μV/m
Usable Sensitivity (IHF)	250 μV/m
Image Rejection	45 dB
IF Rejection	35 dB
Signal to Noise Ratio	45 dB
Selectivity	25 dB

AUDIO AMPLIFIER SECTION

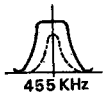
Total music power	85W	
Continuous power	35W each channel drive 30W both channel drive	
Total harmonic distortion (35W output power)	0.5 %	
Power band width	10 – 60,000 Hz	
1 watt frequency response	20 – 50,000 Hz	
Hum and noise	Less than 3mV	
Imput sensitivity & impedance	PHONO 1	2.5mV 50K ohm
	PHONO 2	2.5mV 50K ohm
	MIC	2.5mV 50K ohm
	AUX	180mW 100K ohm
Matching speaker impedance	4 – 16 ohm (8 ohm nominal)	
Damping factor	30 at 8 ohm, 1K Hz	
Tone control	Bass ±10 dB at 100Hz Treble ±10 dB at 10K Hz	
Loudness control	100 Hz +10 dB 10K Hz +6 dB	
Low filter	Fc = 70 Hz (12 dB/oct)	
Audio muting	−20 dB at 1K Hz	
Pre amplifier output	500mV	
Main amp. input sensitivity	500mV/50K ohm	
Tape output sencitivity	RCA 180mV DIN 35mV	
Tape input sencistivity & impedance	RCA 180mV 100K ohm DIN 180mV 100K ohm	
Signal to noise ratio	PHONO 1	more than 70 dB
	PHONO 2	more than 70 dB
	MIC	more than 50 dB
	AUX	more than 80 dB

DIAL CORD STRING



ADJUSTMENT

AM ADJUSTMENT

Step	Adjusting circuit	Connections		SG. Frequency	Position of tuning dial	Adjustment	V.T.V.M. Oscilloscope
		Input	Output				
1	IF	Connect sweep generator to VC7.	Connect oscilloscope to AM OUT (TP 2)	455 KHz	Near max. capacity of VC. at position with no unrequired signal.	1st 9-20970 AM 2nd 9-21020 3rd 9-21030	
2	RF	Connect standard loop antenna to output terminal of SG. Place the unit 2 feet from loop antenna.	Connect V.T.V.M. to AM OUT	600 KHz (400 Hz, 30% modulation)	600 KHz	AM ANT 9-21022 AM OSC 9-20740 RF COIL 9-20291	Max.
3				1400 KHz (400 Hz, 30% modulation)	1400 KHz	TC5 TC6 TC7	Max.
4	Repeat adjustments.						

PREPARE
1. Variable capacitor completely closed.
2. Set the dial pointer to very left line dial scale.
3. Connect sweep generator. SG, V.T.V.M. and oscillscope.
4. Selector switch to "AM"
5. Use a screwdriver with plastic grip for all adjustments.

FM ADJUSTMENT

Step	Adjusting circuit	Connections		SG. frequency	Position of tuning dial	Adjustment	V.T.V.M. Oscilloscope
		Input	Output				
1	IF	Connect sweep generator to test point of the FRONT END through 0.01 μF.	Connect oscilloscope to FRONT END	10.7 MHz (non modulation)	Near max. capacity ol VC. at f position with no unrequired signal.	IFT of the FRONT END	
2	Ratio Det.		Connect oscilloscope to FM OUT			FM DET 9-21000	
3	RF	Connect FM SG. to FM ANT. terminals.	Connect V.T.V.M. to speaker terminal.	90 MHz (400 Hz, 30% modulation)	90 MHz	FM ANT COIL FM OSC COIL 1st RF COIL 2nd RF COIL	Max.
4				106 MHz (400 Hz, 30% modulation)	106 MHz	TC1 TC2 TC3 TC4	Max.
5	Repeat adjustments.						

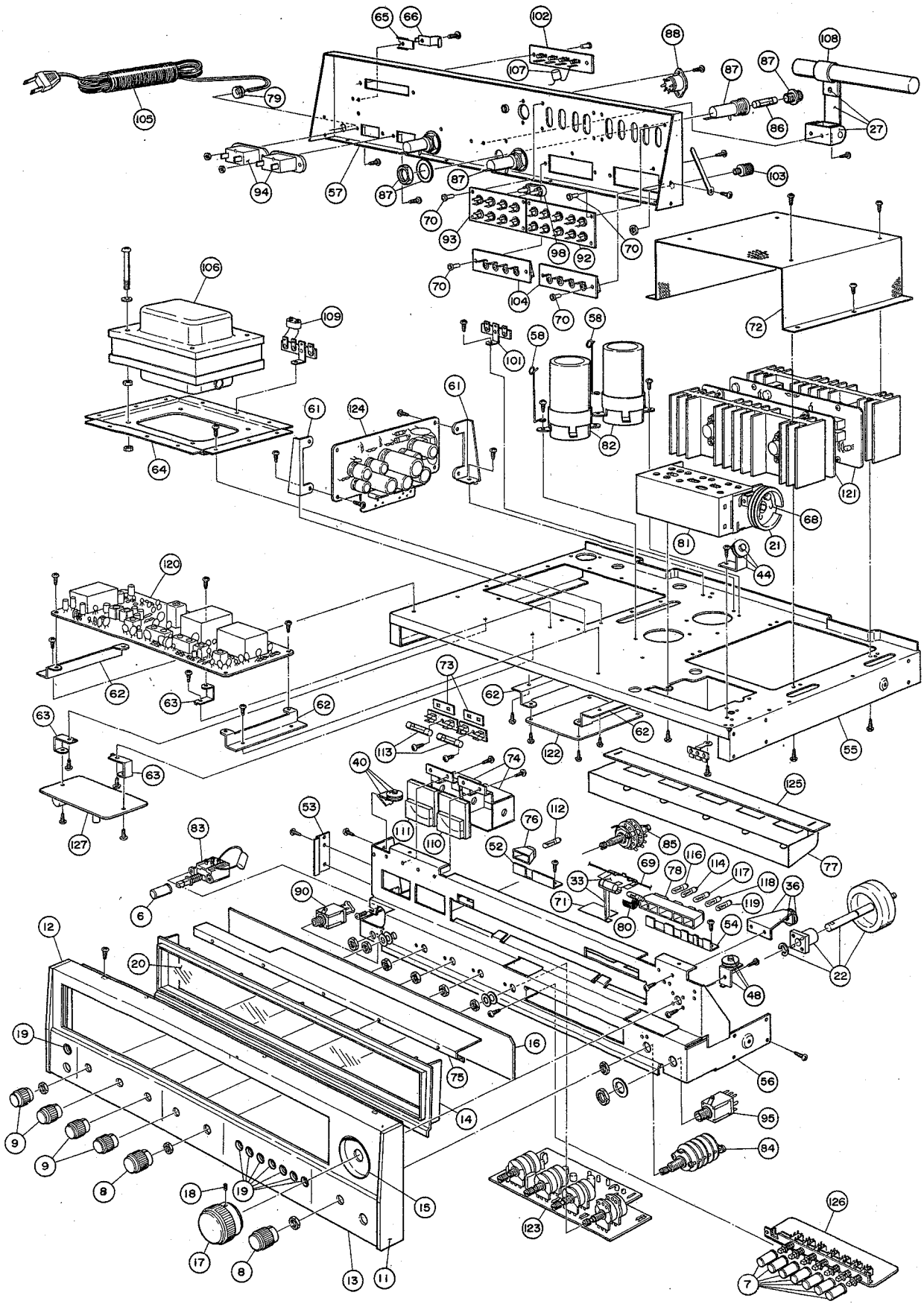
PREPARE
1. Variable capacitor completely closed.
2. Set the dial pointer to very left line of dial scale.
3. Connect sweep generator, FM SG, V.T.V.M. and oscilloscope. FM antena input impedance is 300 ohm.
4. Selector switch to "FM"
5. Use a screwdriver with plastic grip for all adjustments.

FM MPX ADJUSTMENT

Step	Adjusting circuit	Connections		Position of tuning dial	Adjustment	V.T.V.M.
		Input	Output			
1	19 KHz pilot signal	Connect FM stereo SG. to FM ANT terminals. 19 KHz signal ON. SCA signal OFF.	Connect V.T.V.M. to test point PIN No. 1 of IC (LA3300)	Near max. capacity of VC. at position with no unreqiured signal.	19 KHz 9-20210 (Black)	Max.
2	38 KHz	Connect FM stereo SG to FM ANT terminals. 19 KHz signal ON Main channel, sub channel signal ON. Add 1000 Hz signal from L Ch.	Connect V.T.V.M. to test point PIN No. 13 of IC (LA3300)		38 KHz 9-20220 (White)	Max.
3	FM stereo signal separation		Connect V.T.V.M. to R output		Separation control VR-1	Min.
4		Connect FM stereo SG to FM ANT terminals. 19 KHz signal ON. Main channel, sub channel signal ON. Add 1000 Hz signal from R Ch.	Connect V.T.V.M. to L output		38 KHz ①Set the pre-set resistor (1 K-B) connected to PIN No. 5 of IC401 to the minimum position. ②Adjust the pre-set resistor so that sine wave appeared at output becomes clear and minimum	Min.
5	Repeat steps 3~4. Set at position with max. channel separation.					

PREPARE
1. Variable capacitor completely closed.
2. Connect FM stereo SG. and V.T.V.M.
3. Selector switch to "FM AUTO"
4. Use a screwdriver with plastic grip for all adjustments.

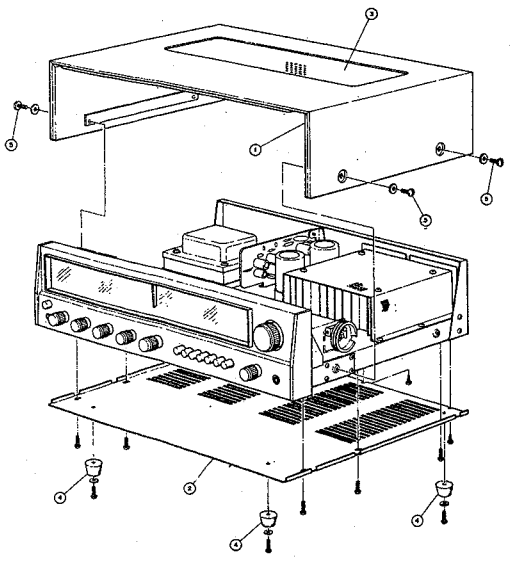
EXPLODED VIEW



PARTS LIST

Key. No.	Part No.	Description	Q'ty
PACKING			
	4 2449 20230	Antenna FM	1
	131 6 1139 43002	Box, corrugate, exp	1
	131 6 2119 00850	Bag, polyethylen, exp	1
	131 6 2719 10300	Bag, fan	1
	131 6 3009 17640	Pad	2
	131 6 4119 33201	Explanatory booklet	1
	131 6 4559 10100	Manufacturing No.	1
CABINET			
1	131 2 1101 22501	Cabinet	1
2	131 2 1105 14000	Plate, Bottom	1
3	131 2 1312 11001	Grill	1
4	131 2 1804 10600	Leg, Rubber	4
5	101 3 1504 01600	Screw, Truss hd, 4 x 16, Cabinet	4
	131 2 4203 84204	Washer. 4.2 x 14 x 1.0 cabinet	4
	131 2 4203 84205	Washer, 4.2 x 10 x 1.0 leg	4
	101 3 1104 01003	Screw, pan hd, 4 x 10, plate bottom	6
	101 3 1104 01203	Screw, pan hd, Leg rubber	4
	102 3 1203 00602	Screw, pan hd tapping 3 x 4, plate bottom	4
6	131 0 1001 23300	Knob assy, power	1
7	131 0 1001 23400	Knob assy, push	7
8	131 0 1001 23500	Knob assy, VR, function	2
9	131 0 1001 23600	Knob assy, SP, balance, bass, treble	4
	131 0 1016 16600	Panel, decorate assy	1
11	131 2 1311 32800	├Sash, right	1
12	131 2 1311 32801	├Sash, left	1
13	131 2 1203 26800	└Panel, control	(1)
14	131 2 1116 11700	Frame	1
15	131 2 1116 11800	Frame	1
16	131 2 1201 23301	Plate, dial	1
17	131 2 1601 26400	Knob, tuning	1
18	131 2 4201 12400	Screw, tuning knob	1
19	131 2 6111 12600	Bushing	8
20	131 2 6308 15000	Filter	1

EXPLODED VIEW



Key. No.	Part No.	Description	Q'ty
CHASSIS			
21	131 0 3002 10800	Drum assy	1
22	131 0 3003 15400	Shaft assy, dial	1
	131 2 4102 16100	├ Shaft, dial	(1)
	131 2 4114 10800	├Bearing	1
	131 2 4116 10400	├Flywheel	1
	131 2 4206 10500	└Ring E	1
27	131 0 3008 11700	Support assy, antenna	1
	131 2 3603 13300	├Metal mount, antenna	1
	131 2 3603 13400	├Metal mount, antenna	1
	131 2 3602 11900	├Holder, antenna	1
	131 2 6111 12300	├Bushing	2
	107 3 1103 00801	├Rivet	3
	131 2 4203 83204	├ Washer 3.2 x 10 x 0.8	3
	101 3 1103 01009	├ Screw, pan hd tapping 3 x 10	1
	104 3 1103 00005	└ Nut, hex. 3	1
33	101 0 3011 13600	Pointer assy	1
	131 2 4101 16000	├Pointer	1
	131 2 4113 11700	└Metal Slide, pointer	1
36	131 0 3020 02000	Pully assy	1
	131 2 4106 14700	├Metal mount, pully	1
	131 2 4108 10400	├Spindle, pulley	1
	131 2 4107 10300	└Pulley	1
40	131 0 3020 02300	Pully assy	1
	131 2 4106 15000	├Metal mount, pully	1
	131 2 4108 10400	├Spindle, Pulley	1
	131 2 4107 10300	└Pulley	1
44	131 0 3020 02500	Pully assy	1
	131 2 4106 15200	├Metal mount, pully	1
	131 2 4108 10400	├Spindle, Pulley	1
	131 2 4107 10300	└Pulley	1
48	131 0 3020 02600	Pully assy	1
	131 2 4106 15300	├Metal mount, pully	1
	131 2 4108 10400	├Spindle, pulley	1
	131 2 4107 10300	└Pulley	1
52	131 2 3101 19700	Metal mount, FM stereo ind.	1
53	131 2 3101 19900	Metal mount, plate dial	1
54	131 2 3101 20600	Metal mount, function ind.	1
55	131 2 3301 18801	Chassis	1
56	131 2 3305 16100	Panel, front	1
57	131 2 3306 16002	Panel, rear	1
58	131 2 3608 11200	Cranp wire, ANT, pointer lead	2
	131 2 3608 11700	Cramp wire	10
	131 2 3608 11701	Cramp wire	10
61	131 2 3614 13300	Mount, power P.C.B.	2
62	131 2 3614 15000	Mount, IF, EQ, P.C.B.	4
63	131 2 3614 15100	Mount, IF, muting P.C.B.	3
64	131 2 3617 12700	Metal mount, trans	1
65	131 2 3621 00400	Metal, cramp wire	1
66	131 2 3621 00500	Metal, cramp wire	1
68	131 2 4111 00300	Spring, rope	1
69	131 2 4112 10200	Rope 0.5ϕ	1
70	131 2 4221 00100	Rivet	14
71	131 2 5205 12000	Cushion, nylon	1
	131 2 6103 13000	Cover shild	1
73	131 2 6107 13900	Plate sever, meter lamp holder	2
74	131 2 6110 19900	Shelter light, tuning meter	2
75	131 2 6110 20000	Shelter light, frame up	1
76	131 2 6110 20100	Shelter light, FM stereo ind.	1
77	131 2 6110 20900	Shelter light, plate dial	1
78	131 2 6110 21000	Shelter light, function ind.	1
79	131 2 6111 11300	Bushing	1
80	131 2 6308 14200	Filter, pointer lamp	1
	101 3 1103 00603	Screw, pan hd. 3 x 6	2
	101 3 1103 01001	Screw, pan hd. 3 x 10	4
	103 3 1604 01001	Screw, binding hd. 4 x 10	1
	102 3 1203 00604	Screw, pan hd. tapping 3 x 6	13
	102 3 1203 00602	Screw, pan hd. tapping 3 x 6	83
	102 3 1203 01204	Screw, pan hd. tapping 3 x 12	8
	104 3 1204 00000	Nut hex. 4	4
	131 2 1110 13100	Plate, Decorate	1
	131 2 4106 13100	Metal mount, pulley	1
	131 2 7103 13410	Label	1
	131 2 7103 13411	Label	2
	131 2 7103 17800	Label, Panel pear	1
	131 2 7104 00101	Plate pad, switch	1

NOTES: 1. Part orders must contain Model Number, Part Number and Description.
2. Unless otherwise noted, component parts indicated by parentheses in the comumn Q'ty are not available.
3. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

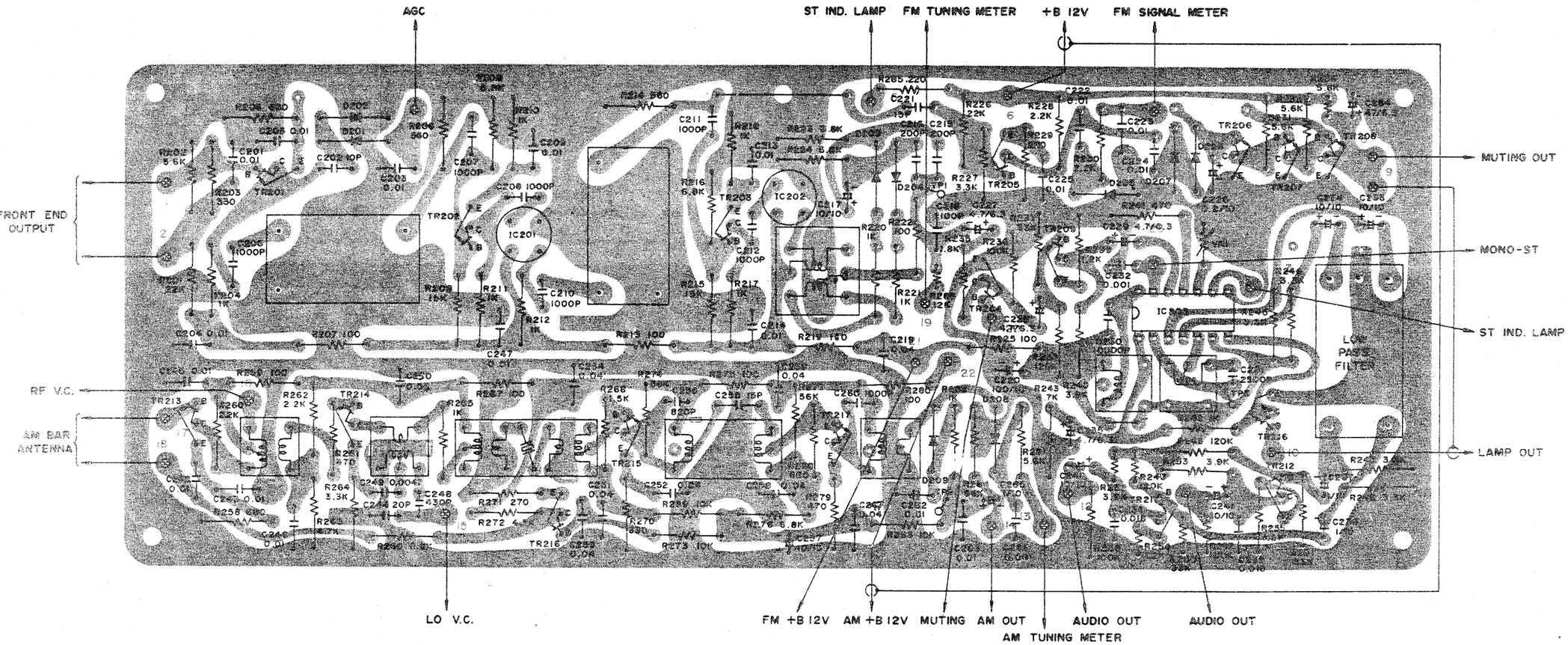
PARTS LIST

Key. No.	Part No.	Description	Q'ty
ELECTRICAL PARTS			
81	4 1259 20280	Front end	1
82	4 2239 20550	Electric capacitor 4700μF 50V C902, C903	2
83	4 2319 23090	Switch, power	1
84	4 2319 23170	Switch, rotary function	1
85	4 2319 23180	Switch, rotary speaker	1
86	4 2319 21531	Switch, slide 6P	1
87	4 2359 20160	Fuse holder	2
88	4 2359 20190	Socket, 5P DIN	1
	4 2359 20200	Socket	3
90	4 2359 21080	Jack, headphone	1
92	4 2359 21240	Socket, phono 10P, input, tape	1
93	4 2359 21260	Socket, phono 8P, tape 2, pre out-main in	1
	4 2359 21020	Socket	3
95	4 2359 21670	Jack, microphone	1
86	4 2349 20580	Fuse 3.15A	1
	4 2349 20590	Fuse 4A	2
98	4 2369 20520	Plug, connector	2
	4 2379 20490	**Terminal lug 1-1P**	1
	4 2379 20150	Terminal, base	1
101	4 2379 20400	Terminal lug 3P DIN	1
102	4 2379 21050	Terminal, antenna	1
103	4 2379 21060	Terminal	1
104	4 2379 21210	Terminal SP 4P	2
105	4 2439 20521	Power cord	1
106	4 2519 22881	Power trans	1
107	4 2539 20121	IF trap	2
108	4 2579 21022	Bar antenna, AM	1
109	4 2599 20300	Balun	1
110	4 5119 20342	Meter, signal	1
111	4 5119 20351	Meter, tuning	1
112	4 6129 20147	Stereo ind. lamp 6.3V 25mA	1
113	4 6129 20280	Pilot lamp, meter	2
114	4 6129 20302	Pilot lamp, FM	1
116	4 6129 20370	Pilot lamp, AM	1
117	4 6129 20371	Pilot lamp, phono	1
118	4 6129 20372	Pilot lamp, mic	1
119	4 6129 20373	Pilot lamp, AUX	1
	131 0 4006 00100	Plug photex	1
		(CAPACITORS)	
		P.P 0.01μF ±20% 630V	2
C904,905 906,907		Ceramic 0.04μF ±20% 50V	4
		(RESISTORS)	
R905,906		Carbon 470 ohm ±10% ½W	2
R903,904		Carbon 100K ohm ±10% ¼W	2
R901,902		Carbon 390K ohm ±10% ¼W	2
IF, MPX P.C.B. ASSY			
120	131 0 4001 41800	IF MPX P.C.B. assy	1
	4 2229 22950	Variable resistor, separation	1
	4 2279 20150	Low pass filter	1
	4 2569 20970	IF trans, AM 1st	1
	4 2569 21000	IF trans, FM discri	1
	4 2569 21020	IF trans, AM 2nd.	1
	4 2569 21030	IF trans, AM	1
	4 2569 21100	FM IF filter	2
	4 2589 20740	AM OSC coil	1
	4 2599 20291	AM RF coil	1
	4 2659 20210	Multiplex coil 19K Hz	1
	4 2659 20220	Multiplex coil 38 K Hz	1
		(CAPACITORS)	
C202		Ceramic 10PF ±0.5pF 50 WV	1
C255,221		Ceramic 15PF ±10% 50 WV	2
C244		Ceramic 20PF ±10% 50 WV	1
C218		Ceramic 100PF ±10% 50 WV	1
C215,216		Ceramic 200PF ±10% 50 WV	2
C206,207 208,210 211,212		Ceramic 0.001μF ±10% 50 WV	6
C232		Mylar 0.001μF ±20% 50 WV	1
C249		Mylar 0.0047μF ±20% 50 WV	1
C238,239		Mylar 0.018μF ±5% 50 WV	2
C236,237		Electrolytic 1μF 10V	2

Key No.	Part No.	Description	Q'ty
IF, MPX P.C.B. ASSY			
C227,228 229,235		Electrolytic 4.7μF 6V	4
C217,233 234,240 241,257		Electrolytic 10μF 10V	6
C264		Electrolytic 47μF 6V	1
C220		Electrolytic 100μF 16V	1
C248		Styrol 430pF ±10% 50V	1
C256		Styrol 820pF ±10% 50V	1
C260		Styrol 1000PF ±10% 50V	1
C231		Styrol 2500pF ±10% 50V	1
C230		Styrol 10000PF ±10% 50V	1
C226		Alsicon 0.2μF ±20% 10V	1
C201,203 204,205 209,213 214,222 223,224 225,242 243,245 246,262 263,247,		Ceramic 0.01μF +80 −20% 50V	18
C219,250 251,252 253,254 258,259 261,247		Ceramic 40000PF +80 −20% 50V	10
C265		Alsicon 1μF ±20% 10V	1
		(RESISTORS)	
R207,213, 222, 225,259, 267,275, 280		Carbon 100 ohm ±10% ¼W	8
R219		Carbon 180 ohm ±10% ¼W	1
R229,285, R271		Carbon 220 ohm ±10% ¼W	2
R203,270		Carbon 270 ohm ±10% ¼W	1
R241,261, 279		Carbon 330 ohm ±10% ¼W	2
R206,214		Carbon 470 ohm ±10% ¼W	3
R205,258, 278		Carbon 560 ohm ±10% ¼W	2
R204,210, 211,212, 217,218, 220,221, 242,265, 282		Carbon 680 ohm ±10% ¼W	3
R239,255		Carbon 1K ohm ±10% ¼W	11
R254		Carbon 1.2K ohm ±10% ¼W	2
R268, R235		Carbon 1.2K ohm ±10% ¼W	1
R228,260 230		Carbon 1.5K ohm ±10% ¼W	1
R227,244, 245,246, 247,264		Carbon 1.8K ohm ±10% ¼W	1
R240,253		Carbon 2.2K ohm ±10% ¼W	3
R252		Carbon 3.3K ohm ±10% ¼W	6
R243,263, 272		Carbon 3.9K ohm ±10% ¼W	2
R202,231, 233,281		Carbon 3.9K ohm ±10% ¼W	1
R234		Carbon 4.7K ohm ±10% ¼W	3
R209,216, 223,224, 266,276		Carbon 5.6K ohm ±10% ¼W	4
R269,273, 283		Carbon 5.6K ohm ±10% ¼W	1
R286		Carbon 6.8K ohm ±10% ¼W	6
R208,215		Carbon 10K ohm ±10% ¼W	3
R201,226, 262		Carbon 12K ohm ±10% ¼W	1
R237,251		Carbon 15K ohm ±10% ¼W	2
R250		Carbon 22K ohm ±10% ¼W	3
R274,277, 284		Carbon 33K ohm ±10% ¼W	2
R236,256		Carbon 33K ohm ±10% ¼W	1
		Carbon 56K ohm ±10% ¼W	3
		Carbon 100K ohm ±10% ¼W	2

Notes: 1. Parts orders must contain Model Number, Part Number and Description.
2. Unless otherwise noted, component parts indicated by parentheses in the column Q'ty are not available.
3. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

IF MPX P.C. ASSY BOTTOM VIEW



TR201 ~ TR203 , TR205 , TR215 , TR217 ---	2SC930
TR204 , TR206 ~ TR208 , TR210 , TR216 ---	2SC536
TR209 , TR211 , TR212 ----------	2SC693
TR213 ----------	2SC674
TR214 ----------	2SC929
IC201 ~ IC202 ----------	LA1221
IC203 ----------	LA3300
D201 ~ D209 ----------	1S188

BOTTOM VIEW

1. BASE
2. COLLECTOR
3. EMITTER

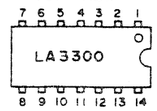
2SC930
2SC536
2SC693
2SC674
2SC929

BOTTOM VIEW

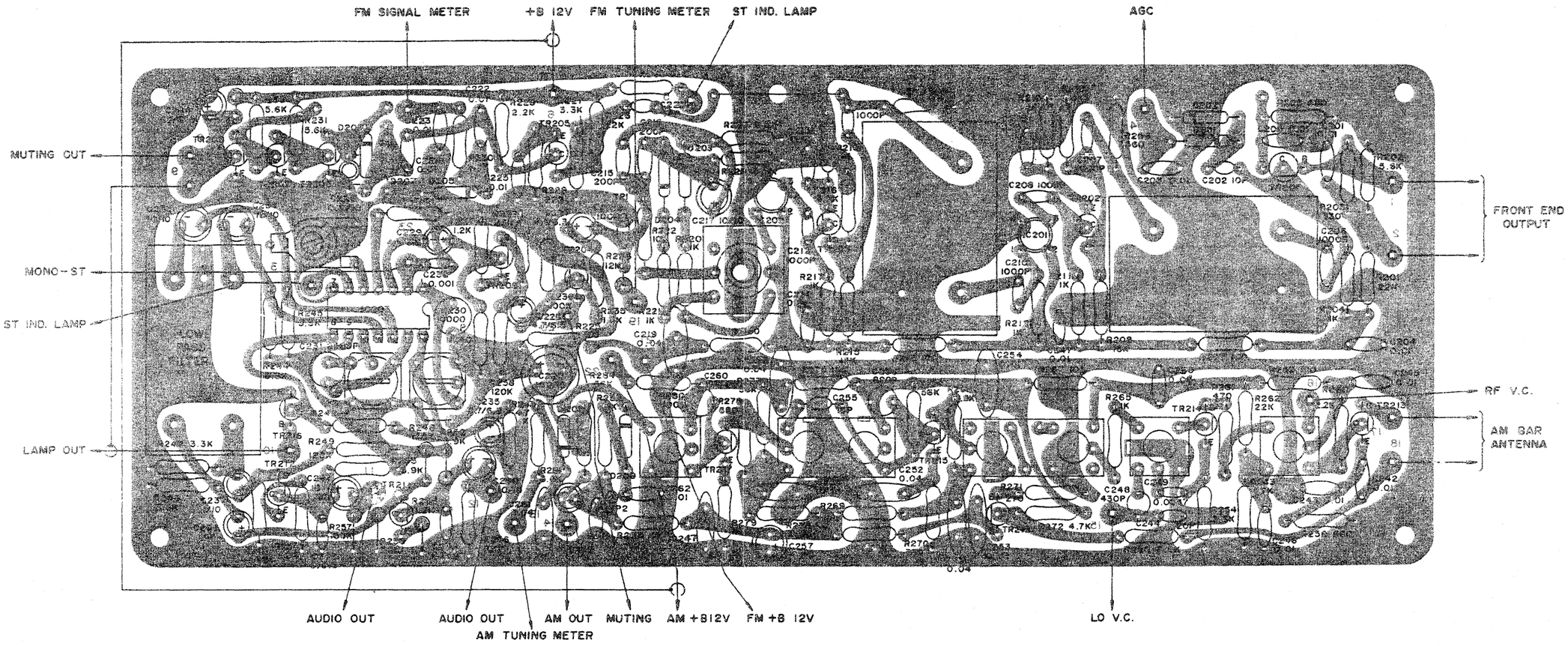
1. COLLECTOR
2. +B
3. INPUT
4. EARTH

LA1221

TOP VIEW



IF MPX P.C. ASS'Y TOP VIEW



TR201 ~ TR203 , TR205 , TR215 , TR217 --- 2SC930
TR204 , TR206 ~ TR208 , TR210 , TR216 --- 2SC536
TR209 , TR211 , TR212 ---------- 2SC693
TR213 ---------- 2SC674
TR214 ---------- 2SC929
IC201 , IC202 ---------- LA1221
IC203 ---------- LA3300
D201 ~ D209 ---------- IS188

PARTS LIST

Key No.	Part No.	Description	Q'ty
IF, MPX P.C.B. ASSY			
R257		Carbon 100K ohm ±10% ¼W	1
R238,249		Carbon 120K ohm ±10% ¼W	2
R248		Carbon 120K ohm ±10% ¼W	1
		(SEMICONDUCTORS)	
D201,202, 203,204, 205,206, 207,208, 209	202 5 9110 18820	Diode 1S188 (FM1)	9
TR213,	203 5 4500 67440	Transistor 2SC674 (D)	1
TR204,206, 207,208, 210,216	203 5 5100 53640	Transistor 2SC536 (D)	6
TR209,211, 212	203 5 5100 69361	Transistor 2SC693 (FD)	3
TR214	203 5 5500 92950	Transistor 2SC929(E)	1
TR201,202, 203,205, 215,217	203 5 5500 93040	Transistor 2SC930(D)	6
IC201,202	206 5 0121 22110	IC LA-1221	2
IC203	206 5 0663 30010	IC LA-3300	1
EQUALIZER P.C.B. ASSY			
122	131 0 4001 42100	Equalizer P.C.B. assy	1
		(CAPACITORS)	
C313,314, 317,318,		Electrolytic 100μF 10V	5

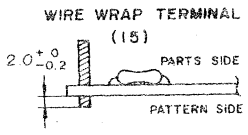
Key No.	Part No.	Description	Q'ty
EQUALIZER P.C.B. ASSY			
321			
C305,306		Electrolytic 10μF 10V	2
C319,320		Electrolytic 10μF 10V	2
C303,304		Ceramic 560pF ±10% 50V	2
C315,316		Ceramic 50pF ±10% 50V	2
C311,312		Mylar 0.001μF ±5% 50V	2
C307,308		Mylar 0.015μF ±5% 50V	2
C309,310		Mylar 0.004μF ±5% 50V	2
C322,323		Mylar 0.1μF ±10% 50V	2
C301,302		Tantal 1μF 35V	2
		(RESISTORS)	
R323,324		Carbon 18K ohm ±5% ¼W	2
R321,322		Carbon 270K ohm ±5% ¼W	2
R328		Carbon 10K ohm ±10% ¼W	1
R325,326		Carbon 22K ohm ±10% ¼W	2
R301,302,		Carbon 120K ohm ±10% ¼W	2
R305,306,		Carbon 150K ohm ±10% ¼W	2
R319,320		Carbon 100K ohm ±10% ¼W	2
R327		Carbon 15K ohm ±10% ¼W	1
R317,318		Carbon 220 ohm ±10% ¼W	2
R303,304		Carbon 2.7K ohm ±10% ¼W	2
R309,310		Carbon 27K ohm ±10% ¼W	2
R311,312		Carbon 270 ohm ±10% ¼W	2
R315,316		Carbon 5.6K ohm ±10% ¼W	2
R313,314		Carbon 68K ohm ±10% ¼W	2
R307,308		Carbon 82K ohm ±10% ¼W	2
		(SEMICONDUCTORS)	
TR301,302		Transistor 2SA726	2
TR303,304		Transistor 2SC1313	2

NOTES: 1. Part orders must contain Model Number, Part Number and Description.
2. Unless otherwise noted, component parts indicated by parentheses in the column Q'ty are not available.
3. Ordering quentity of screws and/or resistors must be multiple of 10 pcs.

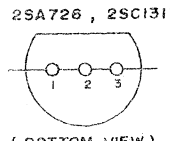
EQUALIZER P.C. ASS'Y BOTTOM VIEW

TR301 , TR302 2SA726 · TR303 , TR304 2SC1313

WIRE WRAP TERMINAL (15)



2SA726 , 2SC1313



1. BASE
2. COLLECTOR
3. EMITTER

(BOTTOM VIEW)

EQUALIZER P.C. ASS'Y TOP VIEW

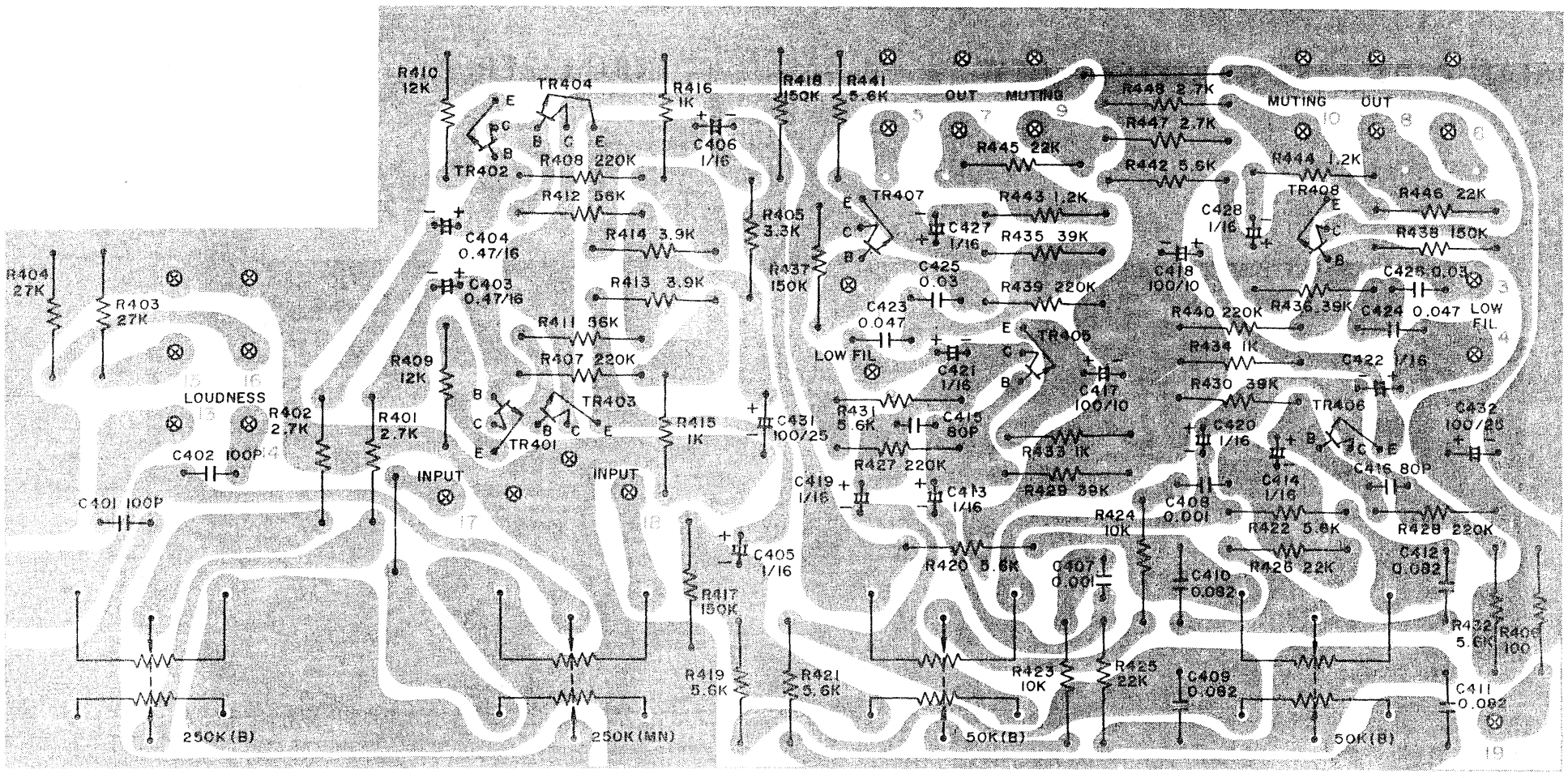
TR301 , TR302 2SA726 · TR303 , TR304 2SC1313

PARTS LIST

Key No.	Part No.	Description	Q'ty
TONE CONTROL P.C.B. ASSY			
123	131 0 4001 41900	Tone control P.C.B. assy	1
	4 2229 23460	Variable resistor, volume	1
	4 2229 23610	VR 250K-MN, barance	1
	4 2229 23620	VR 50KB-2, tone	2
		(CAPACITORS)	
C415,416		Ceramic 80pF ±20% 50V	2
C407,408		Mylar 0.001μF ±5% 50V	2
C425,426		Mylar 0.03μF ±5% 50V	2
C423,424		Mylar 0.047μF ±5% 50V	2
C409,410, 411,412		Mylar 0.082μF ±5% 50V	4
C403,404		Electrolytic 0.47μF 16V	2
C405,406, 413,414, 419,420, 421,422, 427,428		Electrolytic 1μF 16V	10
C417,418		Electrolytic 100μF 10V	2
C431,432		Electrolytic 100μF 25V	2
C401,402		Styrol 100pF ±5% 50V	2
		(RESISTORS)	
R406		Carbon 100 ohm ±10% ¼W	1
R415,416,		Carbon 1K ohm ±10% ¼W	4
433,434			
R443,444		Carbon 1.2K ohm ±10% ¼W	2
R401,402, 447,448		Carbon 2.7K ohm ±10% ¼W	4
R405		Carbon 3.3K ohm ±10% ¼W	1
R413,414		Carbon 3.9K ohm ±10% ¼W	2
R419,420, 421,422, 431,432, 441,442		Carbon 5.6K ohm ±10% ¼W	8
R423,424		Carbon 10K ohm ±10% ¼W	2
R409,410		Carbon 12K ohm ±10% ¼W	2
R425,426, 445,446		Carbon 22K ohm ±10% ¼W	4
R403,404		Carbon 27K ohm ±10% ¼W	2
R429,430, 435,436		Carbon 39K ohm ±10% ¼W	4
R411,412		Carbon 56K ohm ±10% ¼W	2
R417,418, 437,438		Carbon 150K ohm ±10% ¼W	4
R407,408, 427,428 439,440		Carbon 220K ohm ±10% ¼W	6
		(SEMICONDUCTORS)	
TR401 - 408		Transistor 2SC1313	8

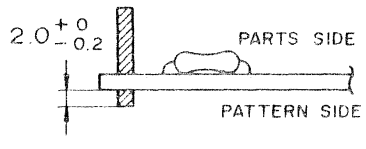
Notes: 1. Parts orders must contain Model Number, Part Number and Description.
2. Unless otherwise noted, component parts indicated by parentheses in the column Q'ty are not available.
3. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

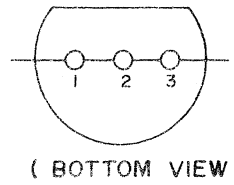
TONE CONTROL P.C. ASS'Y BOTTOM VIEW



TR401 ~ TR408 2SC1313 F or G

WIRE WRAP TERMINAL (26)

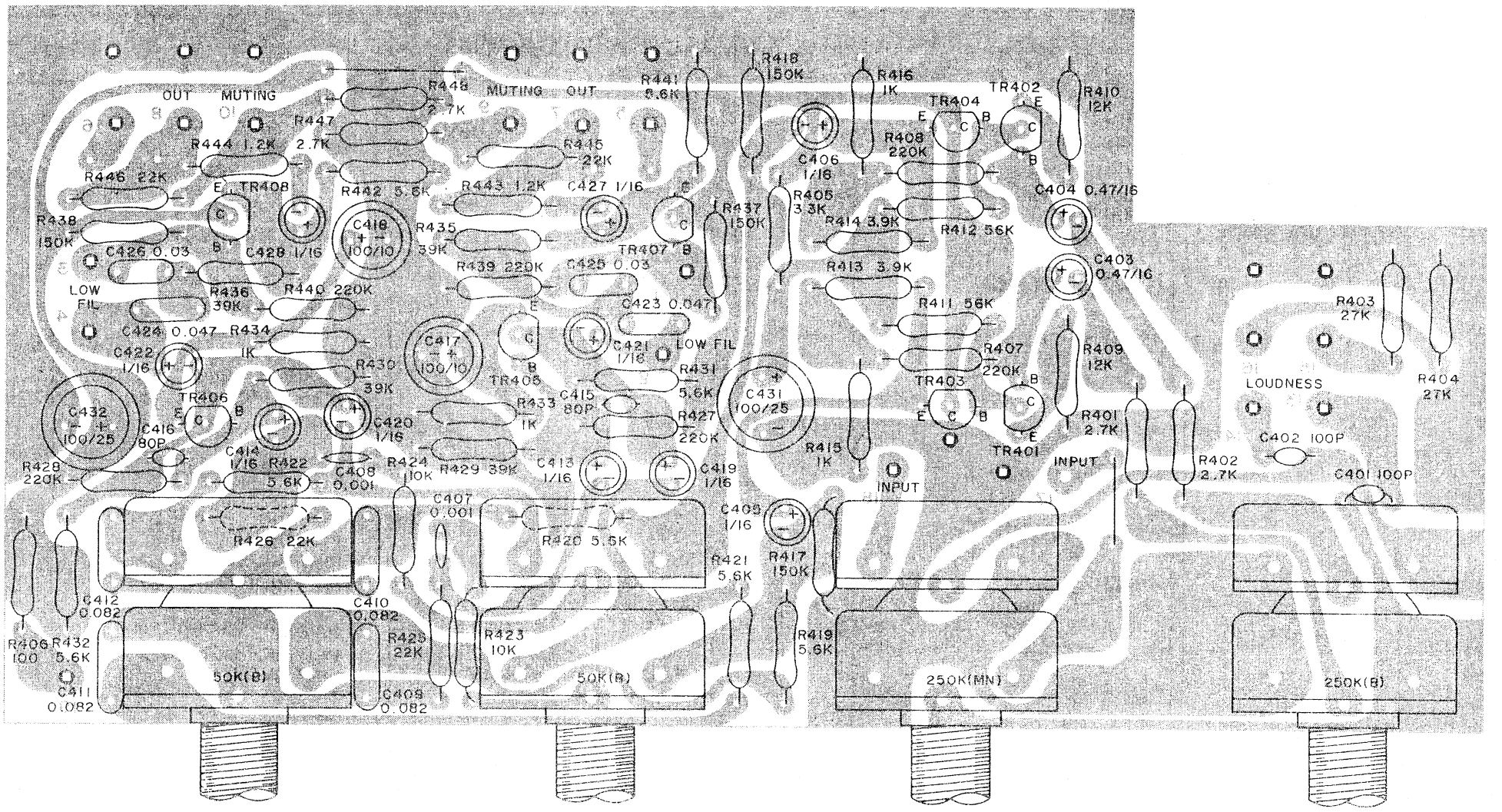




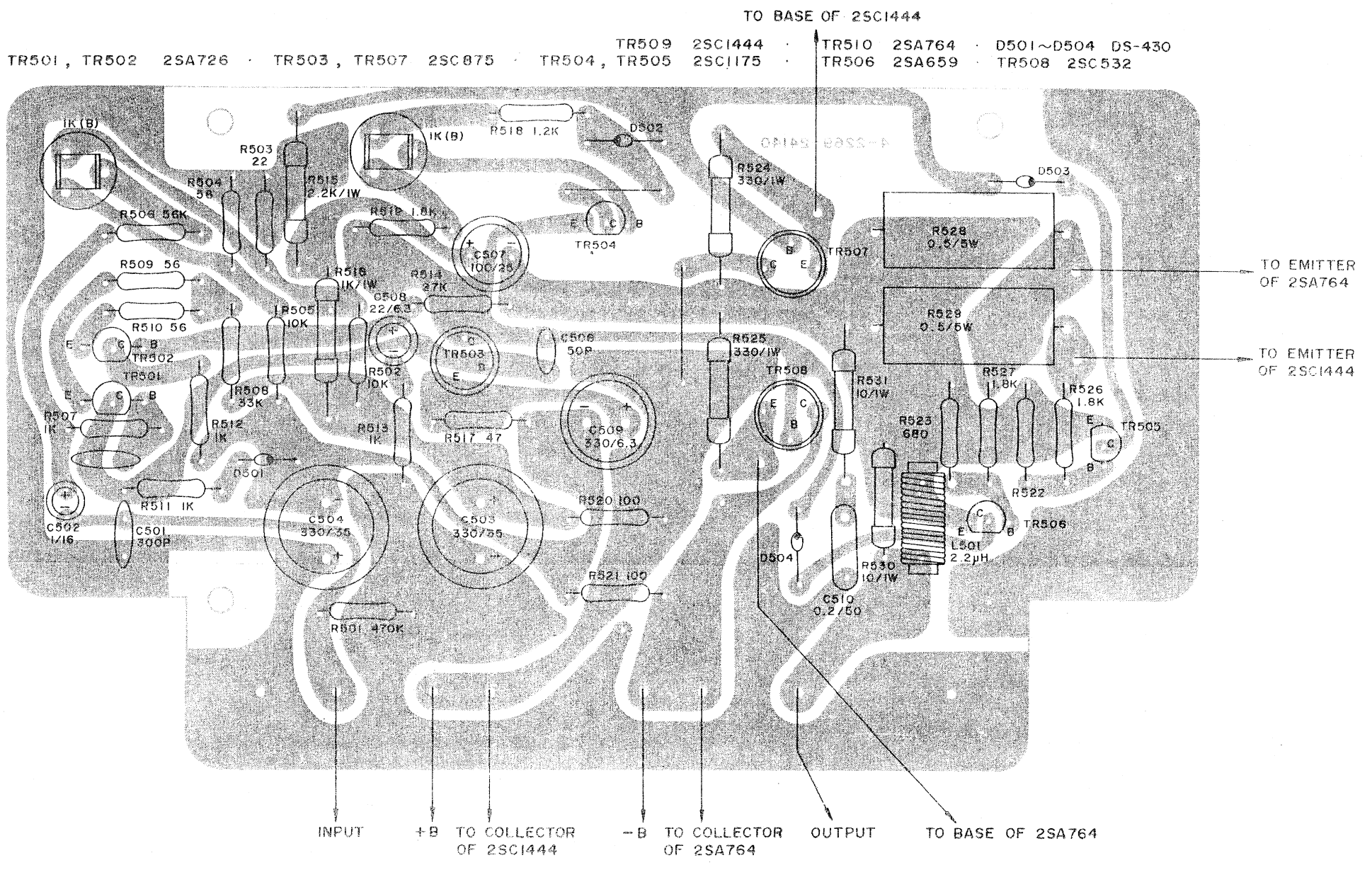
1. BASE
2. COLLECTOR
3. EMITTER

(BOTTOM VIEW)

TONE CONTROL P.C. ASS'Y TOP VIEW



MAIN AMP P.C. ASS'Y TOP VIEW



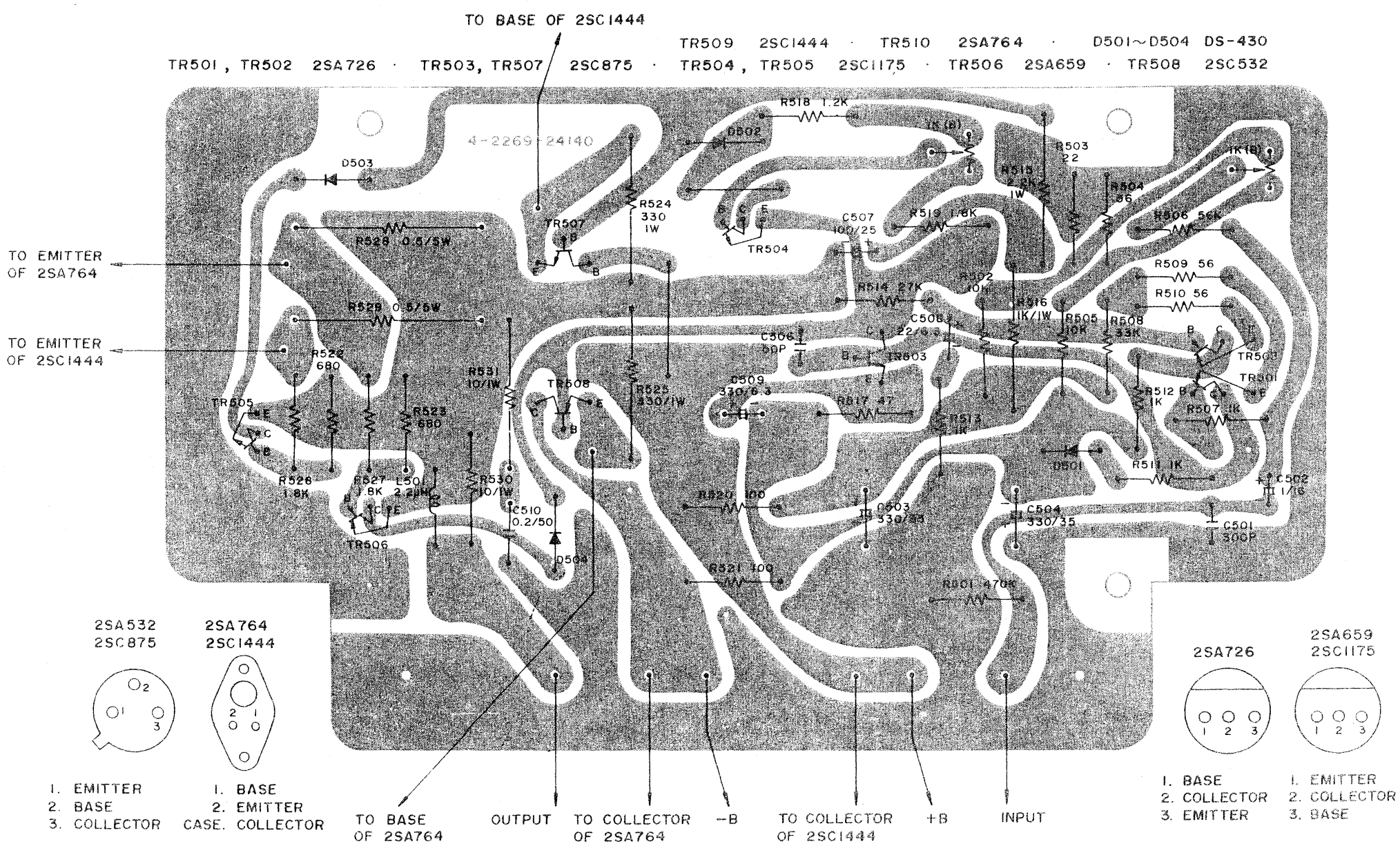
PARTS LIST

Key No.	Part No.	Description	Q'ty
MAIN AMP P.C.B ASSY			
121	131 0 4001 33001	Main AMP P.C.B. assy	1
	4 2229 22910	Semi-fixed VR B-1K ohm	2
L501	4 2539 20160	Choke coil 2.2μF	1
	131 2 3614 13400	Mount, P.C.B.	2
	131 2 3701 12900	Mount, electric part	1
	131 2 3701 13000	Mount, electric part	1
	131 2 6201 19300	Plate, heat sink	1
		(CAPACITORS)	
C506		Ceramic 50pF ±20% 50V	1
C501		Ceramic 300pF ±20% 50V	1
C510		Mylar 0.22μF ±10% 50V	1
C502		Electrolytic 1μF 16V	1
C508		Electrolytic 22μF 6.3V	1
C507		Electrolytic 100μF 25V	1
C509		Electrolytic 330μF 6.3V	1
C503,504		Electrolytic 330μF 35V	2
		(RESISTORS)	
R530,531		Carbon 10 ohm ±10% 1W	2
R503		Carbon 22 ohm ±10% ¼W	1
R517		Carbon 47 ohm ±10% ¼W	1
R504,509, 510		Carbon 56 ohm ±10% ¼W	3
R520,521		Carbon 100 ohm ±10% ¼W	2

Key No.	Part No.	Description	Q'ty
MAIN AMP P.C.B ASSY			
R524,525		Carbon 330 ohm ±10% 1W	2
R522,523		Carbon 680 ohm ±10% ¼W	2
R516		Carbon 1K ohm ±10% 1W	1
R507,511 512,513		Carbon 1K ohm ±10% ¼W	4
R518		Carbon 1.2K ohm ±10% ¼W	1
R519,526, 527		Carbon 1.8K ohm ±10% ¼W	3
R515		Carbon 2.2K ohm ±10% 1W	1
R502,505		Carbon 10K ohm ±10% ¼W	2
R514		Carbon 27K ohm ±10% ¼W	1
R508		Carbon 33K ohm ±10% ¼W	1
R506		Carbon 56K ohm ±10% ¼W	1
R501		Carbon 470K ohm ±10% ¼W	1
R528,529		Carbon 0.5 ohm ±10% 5W	2
		(SEMICONDUCTORS)	
TR510		Transistor 2SA764	1
TR509		Transistor 2SC1444	1
TR501,502		Transistor 2SA726	2
TR503,507	203 5 4600 87550	Transistor 2SC875 (E)	2
TR504,505	203 5 6701 17540	Transistor 2SC1175 (E)	2
TR506	203 5 6800 65940	Transistor 2SA659 (D)	1
TR508	203 5 7100 53250	Transistor 2SA532 (E)	1
D501,502, 503,504	205 5 9020 43011	Diode DS430	4

Notes: 1. Parts orders must contain Model Number, Part Number and Description.
2. Unless otherwise noted, component parts indicated by parentheses in the column Q'ty are not available.
3. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

MAIN AMP P.C. ASS'Y BOTTOM VIEW



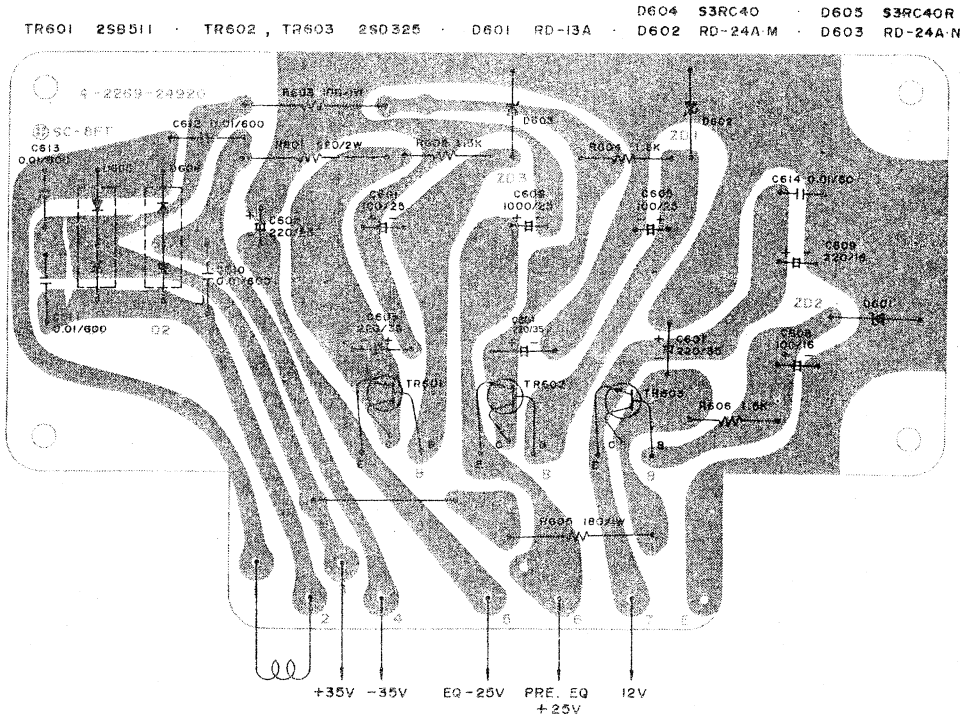
PARTS LIST

Key No.	Part No.	Description	Q'ty
POWER SUPPLY P.C.B. ASSY			
124	131 0 4001 40602	Power supply P.C.B. assy	1
		(CAPACITORS)	
C608		Electrolytic 100μF 16V	1
C609		Electrolytic 220μF 16V	1
C606		Electrolytic 1000μF 25V	1
C601,605		Electrolytic 100μF 25V	2
C602		Electrolytic 220μF 25V	1
C614		Ceramic 0.01μF ±10% 50V	1
C603,604, 607		Electrolytic 220μF 35V	3
C610,611, 612;613		Ceramic 0.01μF ±20% 600V	4

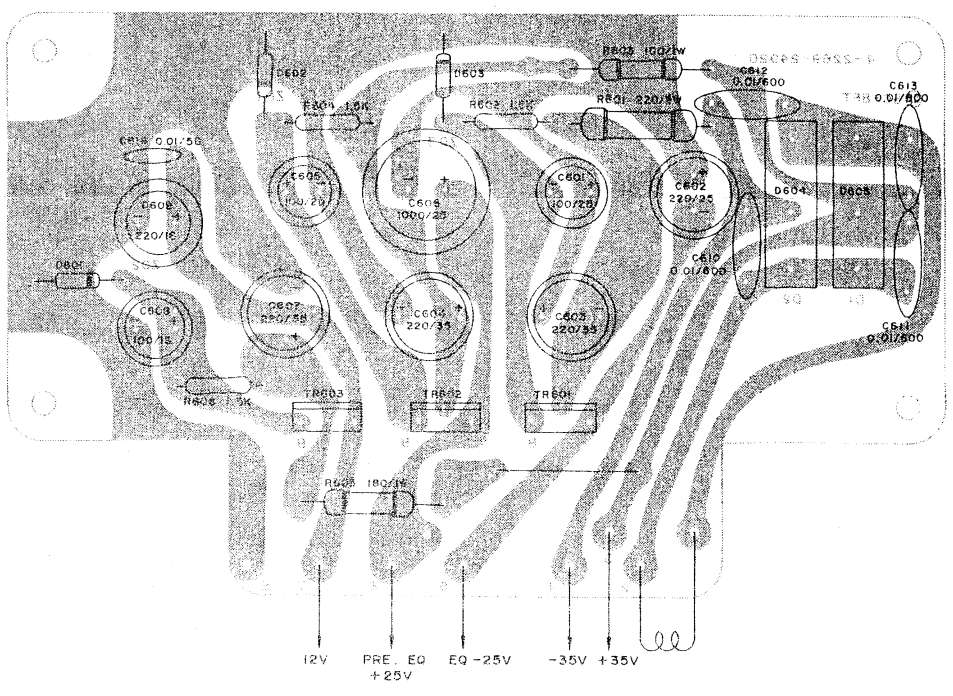
Key No.	Part No.	Description	Q'ty
POWER SUPPLY P.C.B. ASSY			
		(RESISTORS)	
R602,604, 606		Carbon 1.5K ohm ±10% ¼W	3
R603		Metal film 100 ohm ±10% 1W	1
R605		Metal film 180 ohm ±10% 1W	1
R601		Metal film 220 ohm ±10% 2W	1
		(SEMICONDUCTORS)	
TR601	203 5 6470 51140	Transistor 2SB511	1
TR602,603	203 5 8210 32540	Transistor 2SD325	2
D604		Diode S3RC-40	1
D605		Diode S3RC-40R	1
D601		Diode RD-13A	1
D602		Diode RD-24A (M)	1
D603		Diode RD-24A (N)	1

Notes: 1. Parts orders must contain Model Number, Part Number and Description.
2. Unless otherwise noted, component parts indicated by parentheses in the column Q'ty are not available.
3. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

POWER SUPPLY P.C. ASS'Y BOTTOM VIEW



POWER SUPPLY P.C. ASS'Y TOP VIEW



PARTS LIST

Key No.	Part No.	Description	Q'ty
MUTING P.C.B. ASSY			
127	131 0 4001 41600	Muting P.C.B. assy	1
		(CAPACITORS)	
C702,703		Electrolytic 1μF 16V	2
C701		Electrolytic 330μF 6.3V	1
		(RESISTORS)	
R704,709		Carbon 3.3K ohm ±10% ¼W	2
R702		Carbon 6.8K ohm ±10% ¼W	1
R703		Carbon 22K ohm ±10% ¼W	1
R708,705		Carbon 10K ohm ±10% ¼W	2
R701		Carbon 120K ohm ±10% ¼W	1
R706,707		Carbon 560K ohm ±10% ¼W	2
		(SEMICONDUCTORS)	
TR702,703	203 5 5100 53650	Transistor 2SC536 (F)	2
TR701	203 5 6701 17550	Transistor 2SC1175 (E)	1

Key No.	Part No.	Description	Q'ty
SWITCH P.C.B. ASSY			
126	131 0 4001 41700	Switch P.C.B. assy	1
	4 2319 23190	Switch, push 7 keys	1
		(CAPACITOR)	
C801,802		Mylar 0.01μF ±20% 50V	2
		(RESISTOR)	
R801,802		Carbon 2.7K ohm ±10% ¼W	2
DIAL LAMP P.C.B. ASSY			
125	131 0 4001 42000	Dial lamp P.C.B. assy	1
	4 2359 20930	Fuse holder	10
	4 6129 20280	Pilot lamp	5
	4 6129 20360	Pilot lamp, pointer	1
R001		Resistor, Carbon 6.8 ohm ±10% ¼W	1

Notes: 1. Parts orders must contain Model Number, Part Number and Description.
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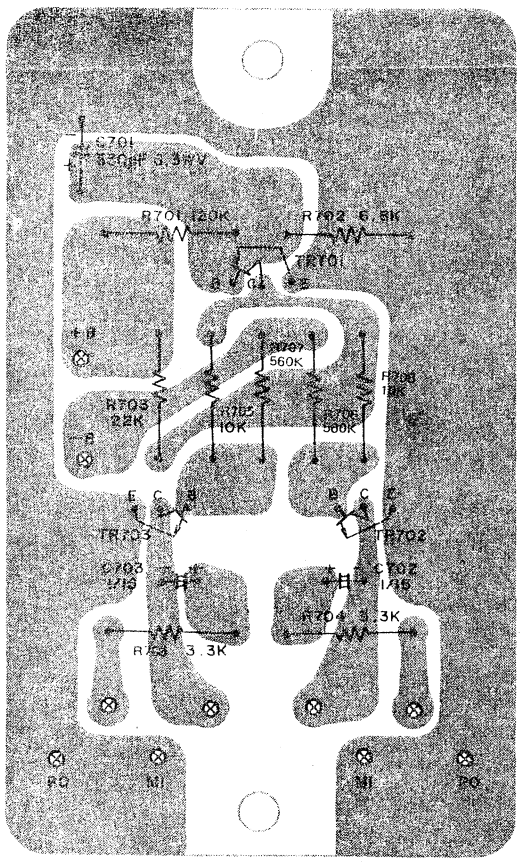
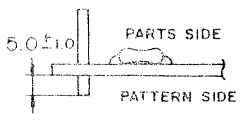
3. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

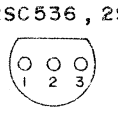
MUTING P.C. ASS'Y BOTTOM VIEW



TR701 2SC1175 · TR702, TR703 2SC536

WIRE WRAP TERMINAL (10) 2SC536, 2SC1175

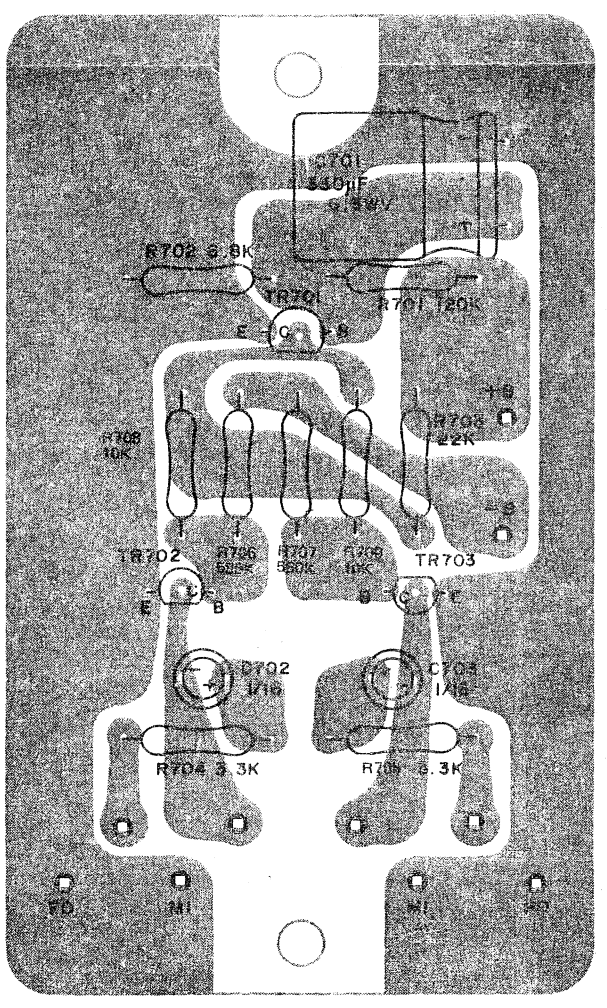




1. EMITTER
2. COLLECTOR
3. BASE

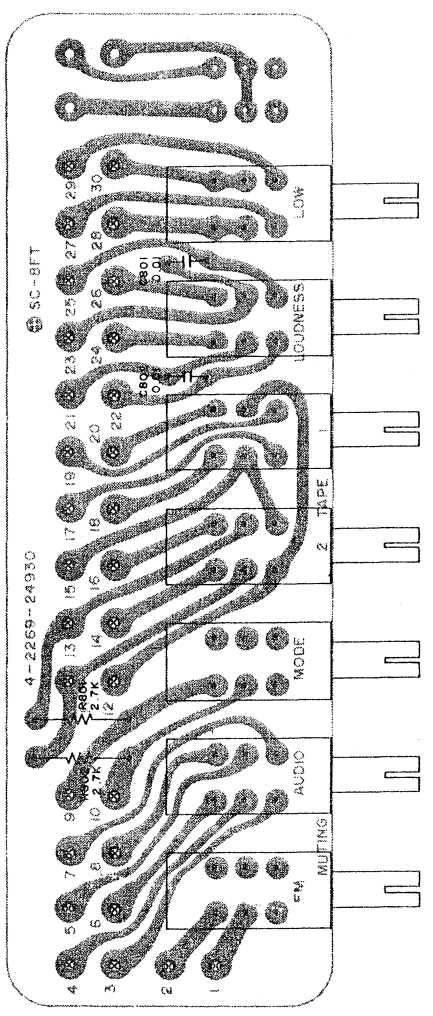
BOTTOM VIEW

MUTING P.C. ASS'Y TOP VIEW

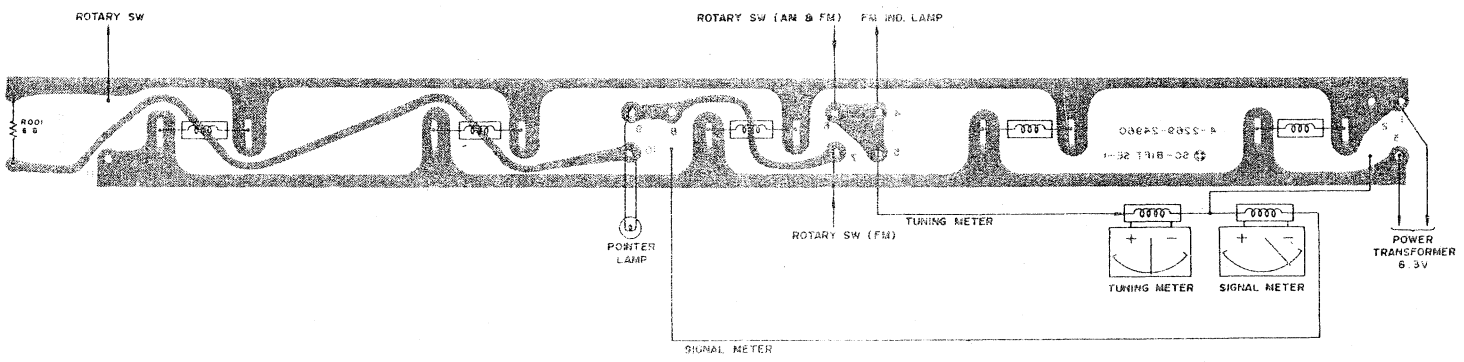


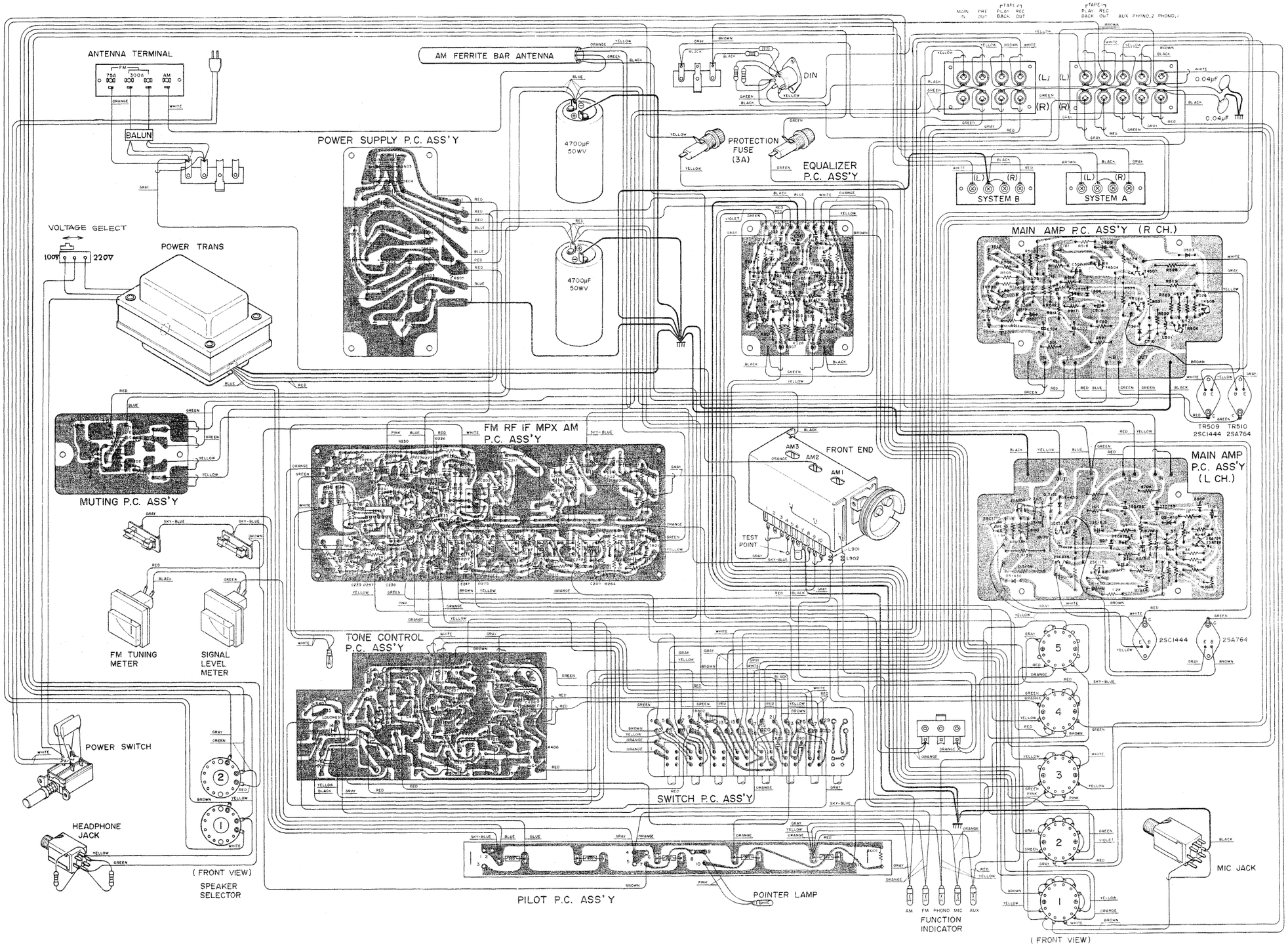
TR701 2SC1175 · TR702, TR703 2SC536

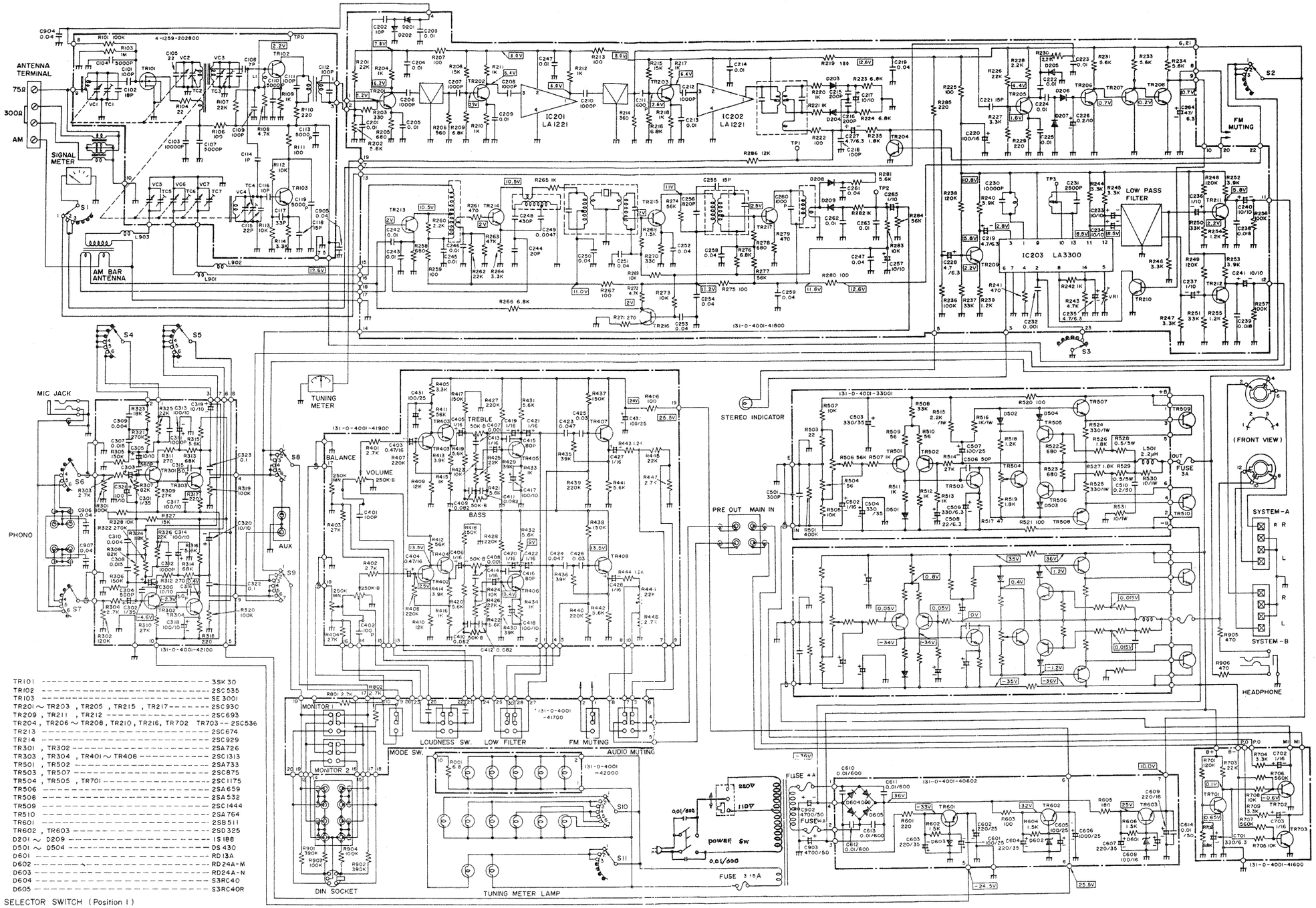
SWITCH P.C. ASS'Y BOTTOM VIEW



DIAL LAMP P.C. ASS'Y BOTTOM VIEW




ANTENNA TERMINAL
FM
75Ω
300Ω
AM
BALUN
AM FERRITE BAR ANTENNA
DIN
POWER SUPPLY P.C. ASS'Y
4700μF 50WV
4700μF 50WV
PROTECTION FUSE (3A)
EQUALIZER P.C. ASS'Y
TAPE(1) PLAY REC BACK OUT
TAPE(2) PLAY REC BACK OUT
MAIN IN
PRE OUT
AUX
PHONO.2
PHONO.1
0.04μF
0.04μF
SYSTEM B
SYSTEM A
VOLTAGE SELECT
100V
220V
POWER TRANS
MAIN AMP P.C. ASS'Y (R CH.)
TR509 TR510
2SC1444 2SA764
MUTING P.C. ASS'Y
FM RF IF MPX AM P.C. ASS'Y
AM3
AM2
AM1
FRONT END
TEST POINT
MAIN AMP P.C. ASS'Y (L CH.)
FM TUNING METER
SIGNAL LEVEL METER
TONE CONTROL P.C. ASS'Y
SWITCH P.C. ASS'Y
POWER SWITCH
HEADPHONE JACK
(FRONT VIEW)
SPEAKER SELECTOR
PILOT P.C. ASS'Y
POINTER LAMP
FUNCTION INDICATOR
AM
FM
PHONO
MIC
AUX
MIC JACK
(FRONT VIEW)



TR101 ---------- 3SK30
TR102 ---------- 2SC535
TR103 ---------- SE3001
TR201～TR203 , TR205 , TR215 , TR217 ---------- 2SC930
TR209 , TR211 , TR212 ---------- 2SC693
TR204 , TR206～TR208, TR210, TR216, TR702 TR703 -- 2SC536
TR213 ---------- 2SC674
TR214 ---------- 2SC929
TR301 , TR302 ---------- 2SA726
TR303 , TR304 , TR401～TR408 ---------- 2SC1313
TR501 , TR502 ---------- 2SA733
TR503 , TR507 ---------- 2SC875
TR504 , TR505 , TR701 ---------- 2SC1175
TR506 ---------- 2SA659
TR508 ---------- 2SA532
TR509 ---------- 2SC1444
TR510 ---------- 2SA764
TR601 ---------- 2SB511
TR602 , TR603 ---------- 2SD325
D201～D209 ---------- IS188
D501～D504 ---------- DS430
D601 ---------- RD13A
D602 ---------- RD24A-M
D603 ---------- RD24A-N
D604 ---------- S3RC40
D605 ---------- S3RC40R

SELECTOR SWITCH (Position 1)

1 : AM
2 : FM MONO
3 : FM STEREO
4 : PHONO 1
5 : PHONO 2
6 : MIC
7 : AUX

S1 : SIGNAL METER (AM/FM)
S2 : AM/FM POWER SW.
S3 : FM (MONO/AUTO)
S4, S5 : EQ SW. (PHONO/MIC)
S6, S7 : EQ INPUT SW. (PHONO/MIC)
S8, S9 : INPUT SELECT SW.
S10 : SELECT POSITION INDICATOR
S11 : METER AND POINTOR SW. (AM, FM)

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